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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,950	09/25/2003	R. Eric Mongtomery	P1087US02	7057
53096 DISCUS DEN	7590 11/28/2007 ΓAL IMPRESSIONS, INC.		EXAM	INER
8550 HIGUER	A STREET	•	BUMGARNER, MELBA N	
CULVER CIT	Y, CA 90232		ART UNIT	PAPER NUMBER
			3732	
			MAIL DATE	DELIVERY MODE
			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			H.	
		Application No.	Applicant(s)	
•		10/670,950	MONTGOMERY, R.	ERIC
Office Action	Summary	Examiner	Art Unit	
		Melba Bumgarner	3732	
The MAILING DATE Period for Reply	of this communication a	nppears on the cover sheet w	ith the correspondence addr	ress
WHICHEVER IS LONGER - Extensions of time may be available after SIX (6) MONTHS from the material of the properties of t	, FROM THE MAILING e under the provisions of 37 CFR illing date of this communication bove, the maximum statutory periended period for reply will, by starer than three months after the ma	PLY IS SET TO EXPIRE 3 M DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOR tute, cause the application to become Al iling date of this communication, even if	CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	·
Status				
1) Responsive to comm	nunication(s) filed on 04	September 2007.		
2a)⊠ This action is FINAL	· · · —	his action is non-final.		
<u>'</u>	/—	vance except for formal mat	ters, prosecution as to the r	nerits is
closed in accordance	e with the practice unde	r <i>Ex par</i> te <i>Quayle</i> , 1935 C.E). 11, 453 O.G. 213.	
Disposition of Claims				
4) Claim(s) <u>18-20,25-42</u>	2 <i>and 51-58</i> is/are pend	ing in the application.	·	
4a) Of the above clai	m(s) is/are withd	rawn from consideration.		
5) Claim(s)is/are	e allowed.			
6)⊠ Claim(s) <u>18-20,25-42</u>	<u>2 and 51-58</u> is/are rejec	ted.		
7) Claim(s) is/ar	e objected to.			
·8) Claim(s) are s	subject to restriction and	d/or election requirement.		
Application Papers				
9)☐ The specification is o	bjected to by the Exami	ner.		
10)⊠ The drawing(s) filed o	on <u>02 May 2007</u> is/are:	a) accepted or b) ⊠ objection	cted to by the Examiner.	
Applicant may not requ	est that any objection to tl	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing	sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37 CFR	≀ 1.121(d).
11) The oath or declaration	on is objected to by the	Examiner. Note the attached	d Office Action or form PTO)-152.
Priority under 35 U.S.C. § 11	9			
12) Acknowledgment is n	nade of a claim for forei	gn priority under 35 U.S.C. {	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some *	c) None of:			
1. Certified copie	s of the priority docume	ents have been received.		
2. Certified copie	s of the priority docume	ents have been received in A	application No	
3. Copies of the	certified copies of the pr	riority documents have been	received in this National St	tage
application fro	m the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached deta	iled Office action for a li	ist of the certified copies not	received.	
Attachmont(a)				
Attachment(s) 1) Notice of References Cited (PT)	O-892)	4) Interview 9	Summary (PTO-413)	
2) Notice of Draftsperson's Patent		Paper No(s)/Mail Date	
3) Information Disclosure Stateme Paper No(s)/Mail Date	nt(s) (PTO/SB/08)	5) Notice of I 6) Other:	nformal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claim 29 and 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not describe the mechanical piston at least partially disposed within the reservoir and advancing the mechanical piston into the reservoir.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 18, 25, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Green (5,829,976). Green discloses a therapeutic dental delivery device comprising a liquid oral therapeutic dental composition (column 1 line 67), an applicator of a brush (column 1 line 14), an activator 32 coupled to the applicator of a push button mechanism and a reservoir 30 located in the device proximate the activator and configured to store the composition, a cap 14 having an open end terminating at a position between the activator and the applicator, the activator is

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configured to dispense the composition from the reservoir to the applicator. The intended use of the composition outside of the delivery device does not impose any further structural limitation on the device and is given little patentable weight, the composition is capable of increasing viscosity such as through drying in the environment, moist or dry.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 18-20, 25, 27, 33, are 38 are rejected, in the alternative, under 35 U.S.C. 103(a) as obvious over Green in view of Ding et al. (6,541,020). Green discloses the therapeutic dental delivery device that shows the limitations as described above and the composition stored in the reservoir of the device is capable of its intended use; however, Green does not explicitly show the composition that increases in viscosity in a moist environment. Ding et al. teach a liquid therapeutic composition comprising a carrier hydrogel (moisture or temperature responsive) composition that increase in viscosity. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the composition of Green in order to have a composition that can be easily dispensed and provide controlled release of therapeutic agent in view of Ding et al. Ding et al. show the composition comprising a moisture responsive gel carrier and a therapeutic agent, and it would have been obvious matter of choice to have a compound in salt form in the composition. The gel carrier comprises polymer complex comprising carboxypolymethylene and polyvinylpyrrolidone (column 13 lines 56, 60).

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7. Claims 18-20, 26, 28-30, 32, 33, 38, are 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grace (1,362,937) in view of Marx (1,041,315) and further in view of Ding et al. Grace discloses a therapeutic dental delivery device comprising a dental composition (page 2) line 50), an applicator 30 of a brush, an activator coupled to the applicator of a twist mechanism and a reservoir 26 located in the device proximate the activator and configured to store the composition, the activator is configured to dispense the composition from the reservoir to the applicator; however, Grace does not show a cap. Marx teaches a dental device comprising a cap for covering the applicator having an open end. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the device with the cap of Marx in order to protect the brush from dust and impurities in view of Marx. It would have been obvious to one of ordinary skill in the art made as to the specific activator, since interchanging of twist mechanism in the device with a push button involves only routine skill in the art and Grace suggests other mechanical embodiments. The modified device does not show composition that increases in viscosity in a moist environment. Ding et al. teach a liquid therapeutic composition comprising a carrier hydrogel (moisture or temperature responsive) composition that increase in viscosity. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the composition of Grace and Marx in order to have a composition that can be easily dispensed and provide controlled release of therapeutic agent in view of Ding et al. Ding et al. show the composition comprising a moisture responsive gel carrier and a therapeutic agent, and it would have been obvious matter of choice to have a compound in salt form in the composition. The gel carrier comprises polymer complex comprising carboxypolymethylene and polyvinylpyrrolidone (column 13 lines 56, 60).

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order to show how to use the composition.

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8. Claims 34-37, 39, 40, 42, and 51-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Green in view of Ding et al. and further in view of Matthews et al. (2003/0232310). The modified device of Green and Ding et al. discloses a device that shows the limitations as described above; however, Green does not show the composition comprising therapeutic agent of peroxide. Matthews et al. teach a device comprising a liquid oral therapeutic dental composition comprising therapeutic agent of hydrogen peroxide or carbamide peroxide [0020]-[0022]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Green to have the therapeutic agent of Matthews et al. in order to whiten or bleach one or more teeth. Matthews et al. teach having instructions in

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- 9. Claims 34-37, 39, 40, 42, and 51-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grace in view of Marx and Ding et al. and further in view of Matthews et al. The modified device discloses a device that shows the limitations as described above; however, they do not show the composition comprising peroxide. Matthews et al. teach a device comprising a liquid oral therapeutic dental composition comprising therapeutic agent of hydrogen peroxide or carbamide peroxide [0020]-[0022]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the device to have the therapeutic agent of Matthews et al. in order to whiten or bleach one or more teeth. Matthews et al. teach having instructions in order to show how to use the composition.
- 10. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Grace in view of Marx and Ding et al. and further in view of Dragan (6,929,475). The modified device discloses a device that shows the limitations as described above; however, they do not show plurality of

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bristles aligned generally parallel with lengthwise direction of the device. Dragan teaches a dental device comprising an applicator with plurality of bristles 246 aligned generally parallel with lengthwise direction of the device the composition. It would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the device to have the applicator of Dragan in order to apply material between teeth and to gum at base of the teeth in view of Dragan.

Drawings

11. The drawings are objected to under 37 CFR 1.83(a). New figure 9 is objected to for containing boundary of reservoir and piston not disclosed in the specification. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will Art Unit: 3732

be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Response to Arguments

12. Applicant's arguments with respect to the rejected claims have been considered but are moot in view of the new ground(s) of rejection. With respect to the 35 USC 102 rejection that is maintained, the amendment to product claim 18 of the limitation "in a moist environment" is a phrase of intended use in that the reservoir of the delivery device is configured to store the composition. With respect to the 35 USC 112 first paragraph rejection that is maintained, the remarks do not sufficiently show where the feature as claimed is supported.

It is noted that the specification states that the delivery devices of such types are known in the art (page 17) and that the dental composition can be dispensed from any suitable delivery device (page 18). It appears like the applicant is arguing that the prior art show more that what is claimed. The secondary reference of Marx is used to show the cap that is lacking in Grace. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Matthews et al. is used to show the agent in the composition that is lacking in primary references, the use of the dipping device that the applicant argues is not used in the rejection. Dragan is used to show the orientation of bristles, the dental material disposed on the device is not used in the rejection.

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Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melba Bumgarner whose telephone number is 571-272-4709. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriquez can be reached at 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Melba Bumgarner

Primary Examiner